

WHAT IS CLAIMED IS:

1. A hydraulic device comprising:
 - a reservoir tank reserving a working fluid;
 - 5 a hydraulic pump sucking in said working fluid from said reservoir tank to increase in pressure and output said working fluid;
 - a fluid distributor unit hydraulically connected to said hydraulic pump to be supplied with said working fluid from said hydraulic pump and having a passage block formed with a first hole inside thereof and an internal body incorporated
 - 10 fluid-tightly in said first hole of said passage block and formed with a groove means on an outer surface of said internal body, said fluid distributor unit being provided with a passageway means hydraulically connected to said groove means;
 - a hydraulic module mounted on said passage block and having a first valve means that controls supply of said working fluid in said passageway means;
 - 15 an actuator mounted on said passage block and comprising a cylindrical shell which has a first end portion and a second end portion and is formed with a cylinder chamber inside thereof, a piston which is movable in said cylinder chamber and defines said cylinder chamber into a first and second chamber at said first and second end portion side of said piston respectively, and a piston rod connecting to said piston
 - 20 and disposed inside of said second chamber;
 - a connecting member having a first and second end portion and connecting at said first end portion of said connecting member to said fluid distributor unit and at said second end portion of said connecting member to said actuator;
 - said cylindrical shell being integrally connected at said first end portion
 - 25 thereof to said passage block with said second end portion of said cylindrical shell projecting outward in an axial direction of said actuator from said passage block;
 - said connecting member being formed with a channel inside thereof to hydraulically communicate said groove means of said internal body and said second chamber of said actuator with each other;
 - 30 said passageway means of said passage block having a first and second passageway to hydraulically communicate said first valve means of said hydraulic module and said groove means of said internal body with each other, a third passageway to hydraulically communicate said groove means of said internal body and said first chamber of said actuator with each other, and a fourth passageway to
 - 35 hydraulically communicate said groove means of said internal body and said channel of said connecting member with each other.

2. A hydraulic device as set forth in claim 1 in which said internal body is formed in a shape of a circular cylinder.
3. A hydraulic device as set forth in claim 1, in which said first hole and said internal body are arranged in a coaxial relationship with each other and in parallel with said axial direction of said actuator.
4. A hydraulic device as set forth in claim 1, in which said internal body is formed inside thereof with a second hole and a radially extending passageway hydraulically communicating said second hole and said groove means of said internal body with each other, and said internal body receiving a second valve means in said second hole.
5. A hydraulic device as set forth in claim 4, in which said second hole and said second valve means are arranged in a coaxial relationship with said first hole and said internal body and in parallel relationship with said axial direction of said actuator.
6. A hydraulic device as set forth in claim 1, in which said first, second and third passageways are formed inside of said passage block, and said fourth passageway being formed in said internal body.
7. A hydraulic device as set forth in claim 4, in which said second valve means is shiftable to assume two different positions consisting a first operation mode position in which said first and second passageways can be hydraulically held in communication with said third and fourth passageways and a second operation mode position in which said first and second chambers of said actuator can be hydraulically held in communication with each other and blocked from said first and second passageways.
8. A hydraulic device as set forth in claim 7, in which said second valve means communicates said third passageway and said fourth passageway with each other in said second operation mode position.
9. A hydraulic device as set forth in claim 1, in which said internal body is formed at said connecting member side thereof with a connecting chamber to be connected to said connecting member and said groove means of said internal body.

10. A hydraulic device as set forth in claim 4, in which said internal body is formed at said connecting member side thereof with a connecting chamber to be connected to said connecting member and inside of said internal body with a plurality of radially extending passageways to hydraulically communicate said connecting chamber and said second valve means with said groove means.

11. A hydraulic device as set forth in claim 4, in which said second valve means has a valve spool movable in said second hole, and a spring located at an opposite side of said connecting member and urging said valve spool toward said connecting member side.

12. A hydraulic device as set forth in claim 4, in which said second valve means has a valve sleeve received in said second hole and formed with a radially extending passageway to hydraulically communicate an inner and outer side of said valve sleeve with each other, a valve spool movable in said valve sleeve, and a spring located at an opposite side of said connecting member and urging said valve spool toward said connecting member side.

13. A hydraulic device as set forth in claim 4, in which said second valve means has a plurality of valves including at least one of a relief valve and a check valve and arranged in tandem with each other.

14. A hydraulic device as set forth in claim 1, in which said passage block has a cover member which has a through hole and covers an opening end of said first hole of said passage block at said channel side of said passage block, and said first end portion of said connecting member passing through said through hole of said cover member and connected to said internal body to hydraulically communicate said channel of said connecting member and said groove means of said internal body with each other.

15. A hydraulic device as set forth in claim 14, in which said connecting member is connected to said internal body at a center of said connecting member side end of said internal body.

16. A hydraulic device as set forth in claim 14, in which said cover member is secured to said passage block and retains said internal body by a locking means to prevent a rotational movement of said internal body with respect to said passage

block.

17. A hydraulic device as set forth in claim 1, in which said connecting member is one of a pipe and a hose.

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18. A hydraulic device as set forth in claim 1, in which said connecting member is arranged in a parallel relationship with said axial direction of said actuator.

19. A hydraulic device as set forth in claim 1, in which said cylindrical shell is integrally formed in one piece at said first chamber side thereof with said passage block.

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20. A hydraulic device as set forth in claim 1, in which said first valve means of said hydraulic module controls supply of said working fluid in said first passageway and said second passageway.

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